

Message

From: Lee Ferguson [lee.ferguson@duke.edu]
Sent: 10/9/2018 12:27:01 PM
To: Strynar, Mark [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5a9910d5b38e471497bd875fd329a20a-Strynar, Mark]
CC: Surratt, Jason D. [surratt@unc.edu]; Detlef R. U. Knappe [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=user17c3f77b]
Subject: Re: PFAS standards?

Great, thanks Mark. Yep good plan I'll reach out to Chemours to get aliquots of standards that they can provide. Thanks for the lead on PFMOAA!

Lee

Sent from my iPhone

On Oct 9, 2018, at 8:23 AM, Strynar, Mark <Strynar.Mark@epa.gov> wrote:

Lee,

With the exception of PFMOAA I have received all for these only from Chemours. I think that you should also get an aliquot from them. I am glad to share some of what I have with you, however from a QA/QC perspective anything I give you is biased by what we did with the standards we received since receipt.

Lam Leung at Chemours is the contact I have for the standards I got. LAM.H.LEUNG-1@chemours.com

The PFMOAA can now be purchased from Fluorox as a Na salt. It is \$195/100 mg. <https://fluorox.com/collections/new-products/products/sodium-2-2-difluoro-2-trifluoromethoxyacetate-catalog-no-fc23-02-cas-no-21837-98-9>

Let me know what you think.

Mark

From: Lee Ferguson [<mailto:lee.ferguson@duke.edu>]
Sent: Friday, October 05, 2018 11:18 AM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Subject: PFAS standards?

Hey Mark,

I'm working on getting my inventory of standards under control for the PFAST network project, and one of the more difficult issues I'm facing is access to the perfluoro alkyl ether compounds. My understanding is that Chemours (and maybe others?) provided you with standards for some of these compounds, and you had others synthesized, right? Would you be willing to share some of these with us? We can buy HFPO-DA, ADONA, and the two F-35B components from Wellington, but I'm having trouble finding the compounds in the table below. Please let me know if you could provide aliquots of some of these.

Hope your ankle is feeling better!

Perfluoro-2-methoxyacetic acid	PFMOAA	674-13-5
Perfluoro-2-methoxypropanoic acid	PMPA	13140-29-9
Perfluoro-2-ethoxypropanoic acid	PEPA	N/A
Perfluoro(3,5-dioxahexanoic) acid	PFO2HxA	39492-88-1
Perfluoro(3,5,7-trioxaoctanoic) acid	PFO3OA	39492-89-2
Perfluoro(3,5,7,9-tetraoxadecanoic) acid	PFO4DA	39492-90-5
Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid	PFO5DoDA	39492-91-6
Ethanesulfonic acid, 2-[1-[difluoro[(1,2,2-trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoro-	Nafion by-product 1	29311-67-9
Ethanesulfonic acid, 2-[1-[difluoro(1,2,2,2-tetrafluoroethoxy)methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoro-	Nafion by-product 2	749836-20-2
2,2,3,3,4,5,5,5-4-(1,1,2,2-tetrafluoro-2-sulfoethoxy)pentanoic acid	Nafion by-product 4	N/A
Propanoic acid, 3-[1-[difluoro(1,2,2,2-tetrafluoroethoxy)methyl]-1,2,2,2-tetrafluoroethoxy]-2,2,3,3-tetrafluoro-	Hydro-EVE acid	773804-62-9
1,1,2,2-tetrafluoro-2-(1,2,2,2-tetrafluoro-ethoxy)ethane sulfonic acid	NVHOS	N/A

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